

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,424,856 B2
APPLICATION NO. : 10/525565
DATED : September 16, 2008
INVENTOR(S) : Werner Brennwald et al.

Page 1 of 16

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

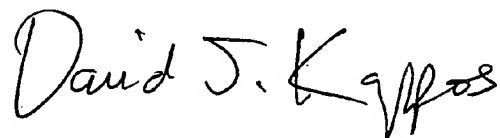
The title page should be deleted to appear as per attached title page.

Delete the Drawing Sheets 1-7 and substitute therefor the attached Drawing Sheets 1-14.

This certificate supersedes all previously issued Certificates of Correction.

Signed and Sealed this

Fifteenth Day of June, 2010

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive, flowing style.

David J. Kappos
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Brennwald et al.

(10) Patent No.: **US 7,424,856 B2**
(45) Date of Patent: **Sep. 16, 2008**

(54) **GRATE ELEMENT FOR A GRATE OF A WASTE COMBUSTION INSTALLATION**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(75) Inventors: **Werner Brennwald, Neftenbach (CH);
Manfred Wider, Uster (CH); Fritz
Weber, Neistal (CH)**

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(73) Assignee: **Von Roll Umwelttechnik AG (CH)**

FOREIGN PATENT DOCUMENTS

(*) Notice: **Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 397 days.**

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FR	2 265 041	10/1975

(21) Appl. No.: **10/525,565**

(22) PCT Filed: **Aug. 22, 2003**

(86) PCT No.: **PCT/EP03/09323**

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Max Künzli, W + E-Gegenlauf Überschiebrost, p. 1-17.

§ 371 (c)(1),
(2), (4) Date: **Feb. 25, 2005**

* cited by examiner

(87) PCT Pub. No.: **WO2004/025181**

Primary Examiner—Kenneth B Rinehart
(74) *Attorney, Agent, or Firm*—Hershkovitz & Associates,
LLC; Abe Hershkovitz

PCT Pub. Date: **Mar. 25, 2004**

(57) **ABSTRACT**

(65) **Prior Publication Data**

US 2005/0257723 A1 Nov. 24, 2005

(30) **Foreign Application Priority Data**

Aug. 29, 2002 (EP) 02405738

(51) Int. Cl.
F23H 7/08 (2006.01)

(52) U.S. Cl. 110/281; 110/258; 110/291

(58) Field of Classification Search 110/281
110/257, 258, 267, 268, 282, 283, 284, 289,
110/290, 291, 296

See application file for complete search history.

The present invention relates to a grate element (1) for a grate of a waste-incineration plant, having a plurality of rows of grate blocks, which are moveable or fixed, arranged one behind the other, a plurality of grate blocks (67) being arranged in each row of grate blocks. A first number of grate blocks arranged in a moveable row of grate blocks here is assigned to a first grate carriage (5), and a second number of grate blocks arranged in a moveable row of grate blocks is assigned to a second grate carriage (35), it being possible for the first number of grate blocks to be moved independently of the second number of grate blocks.

3 Claims, 14 Drawing Sheets

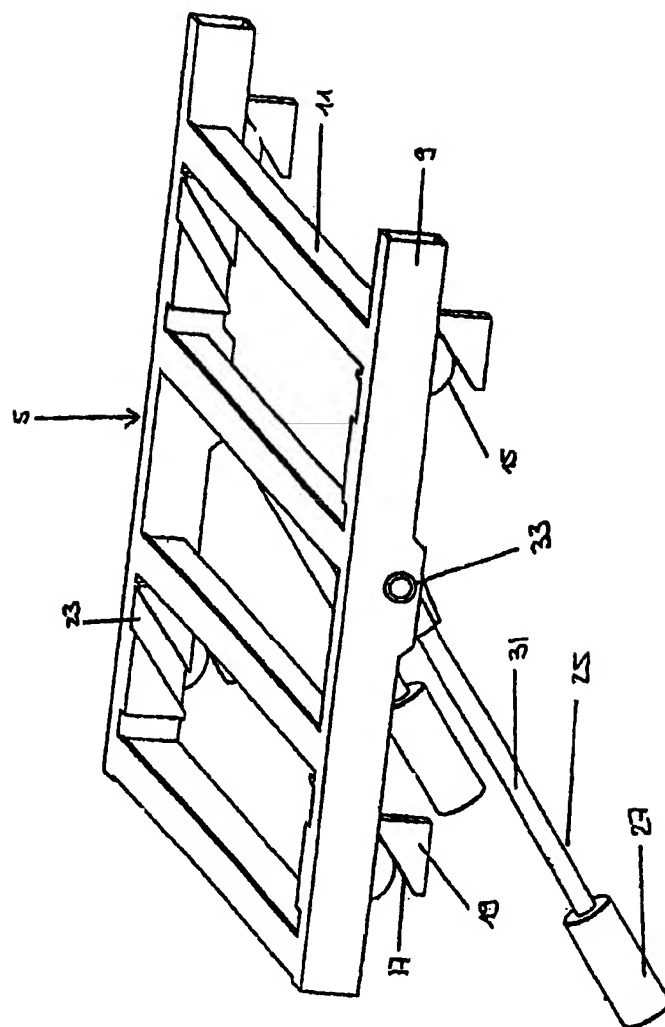


Figure 1

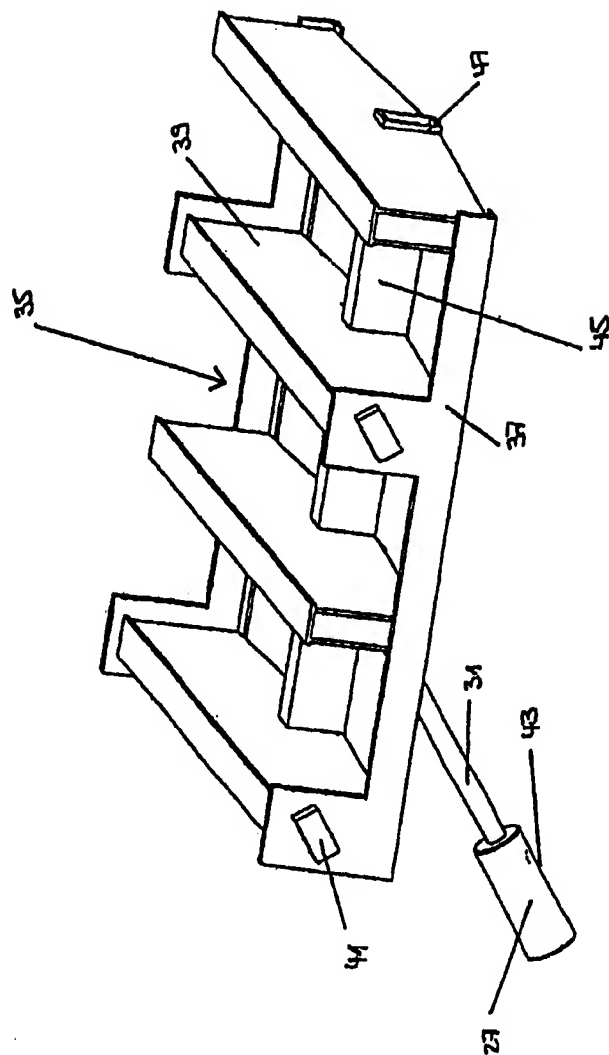


Figure 2

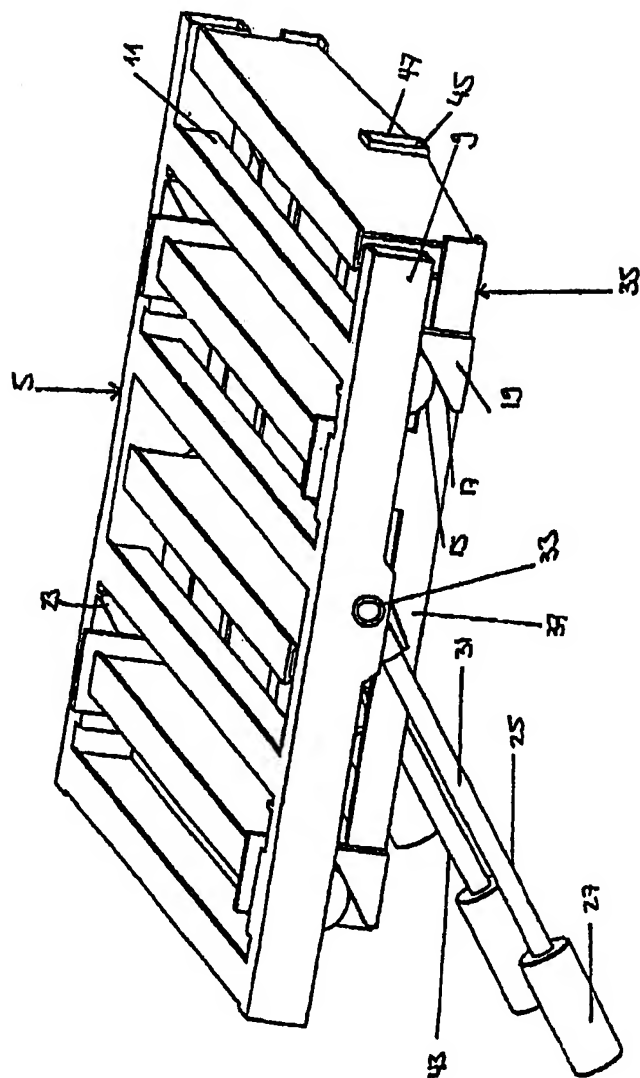


Figure 3

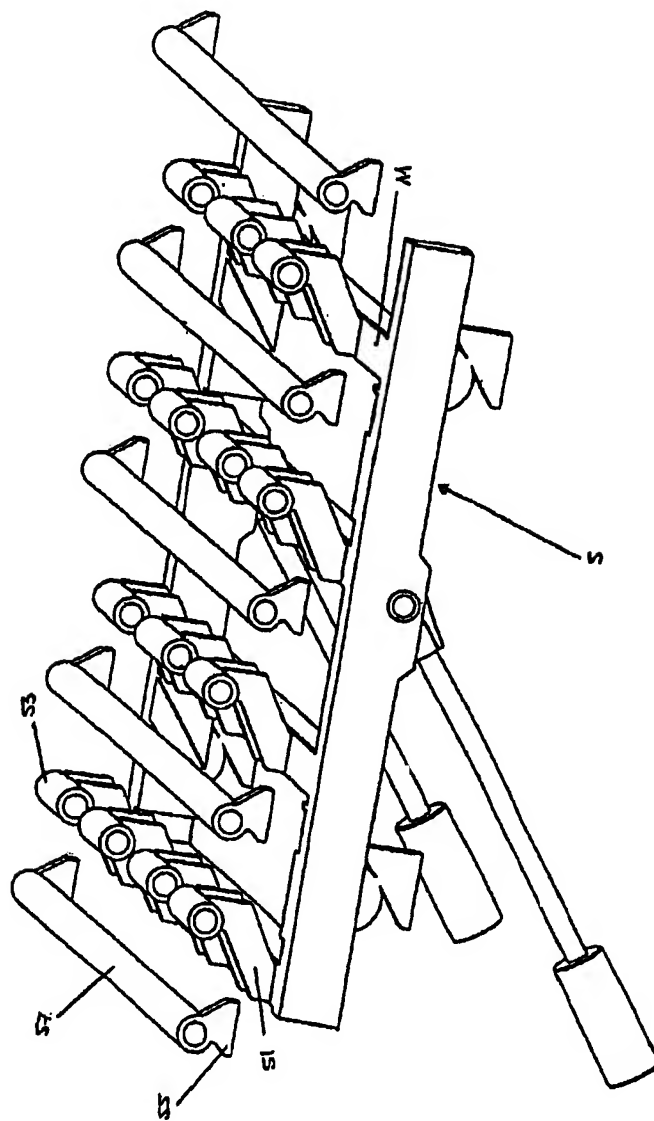


Figure 5

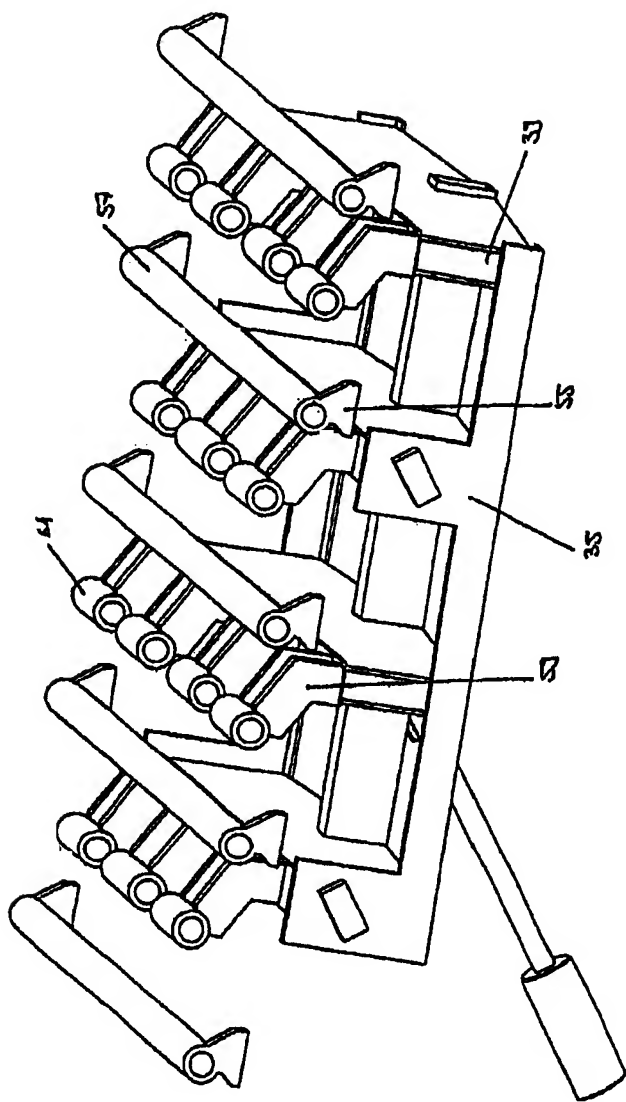


Figure 6

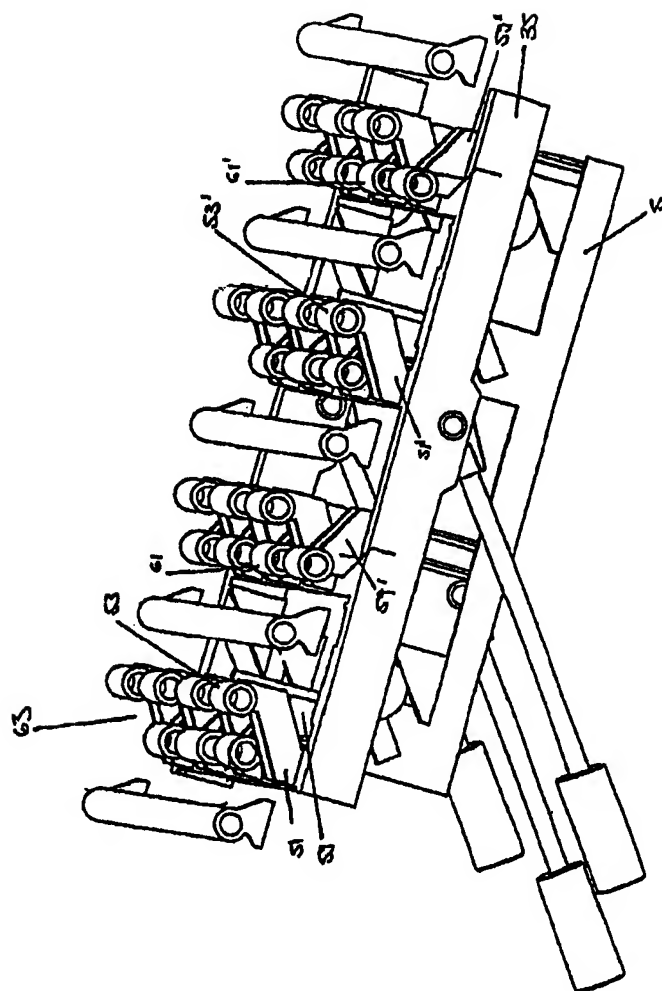


Figure 7

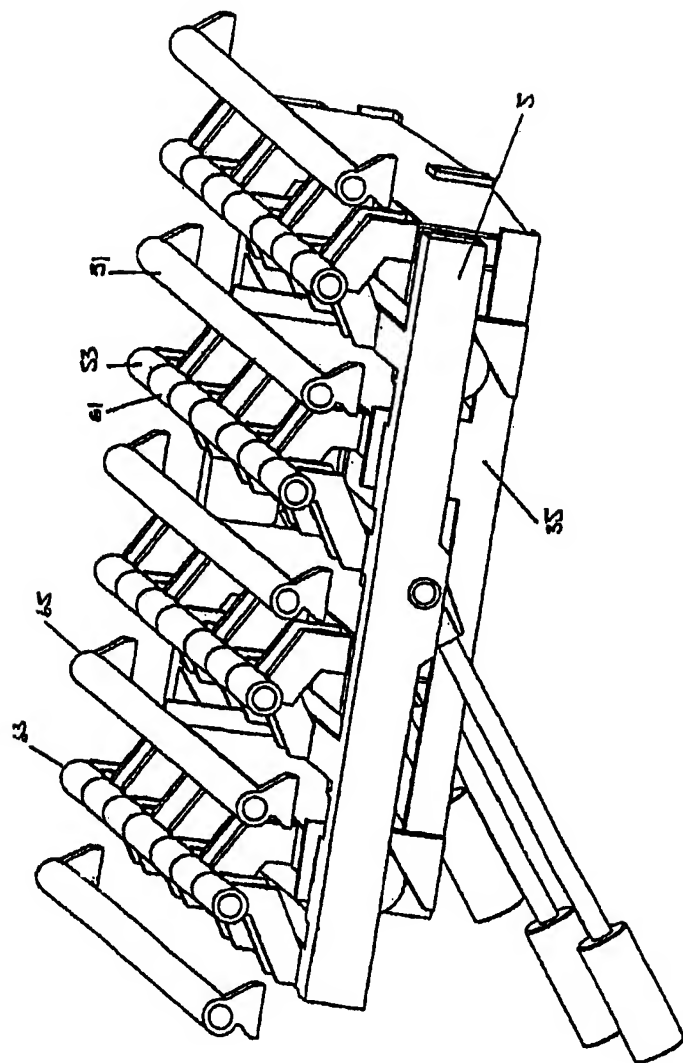


Figure 8

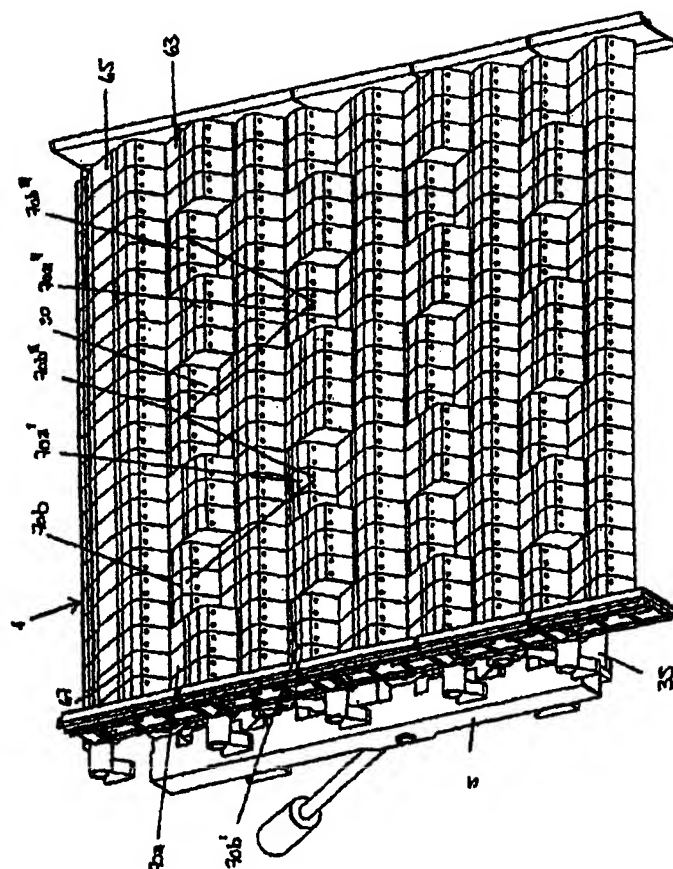


Figure 8

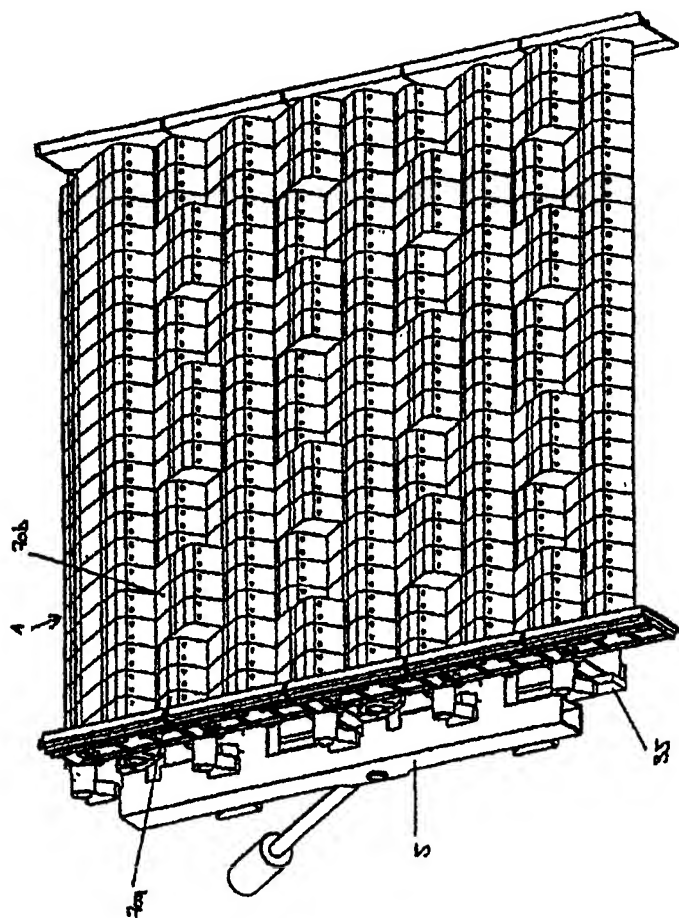


Figure 10

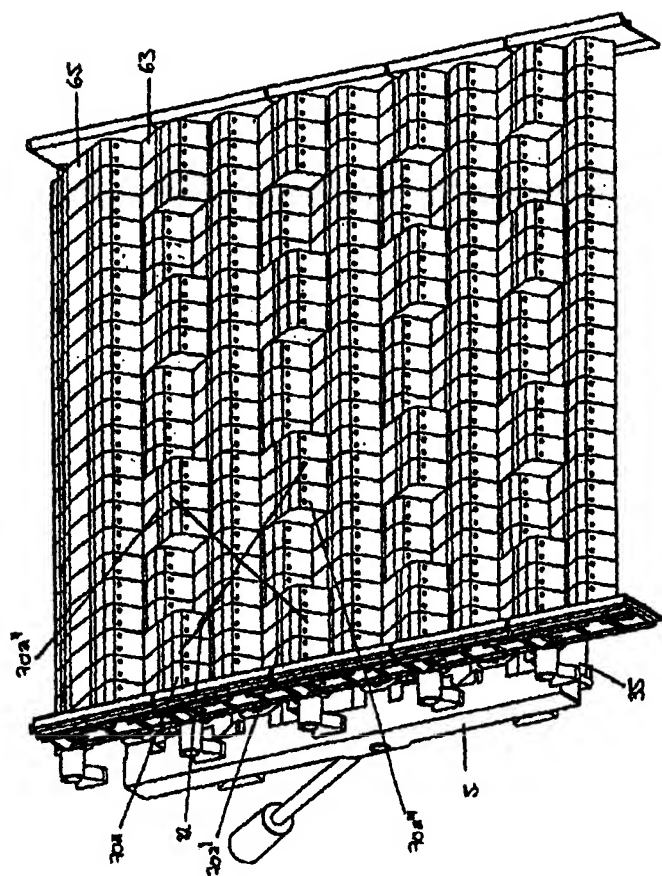


Figure 11

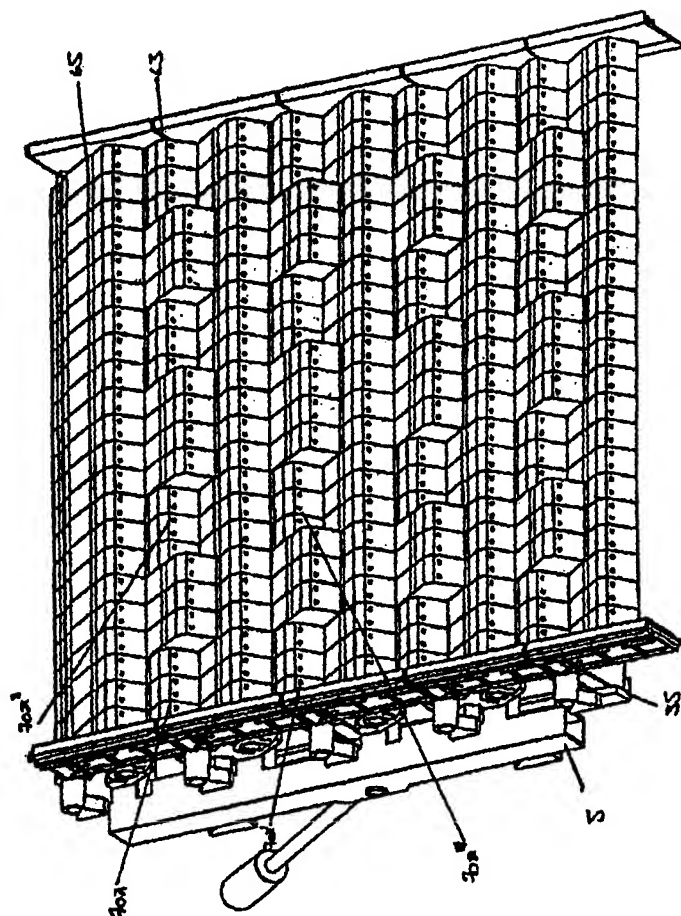


Figure 12

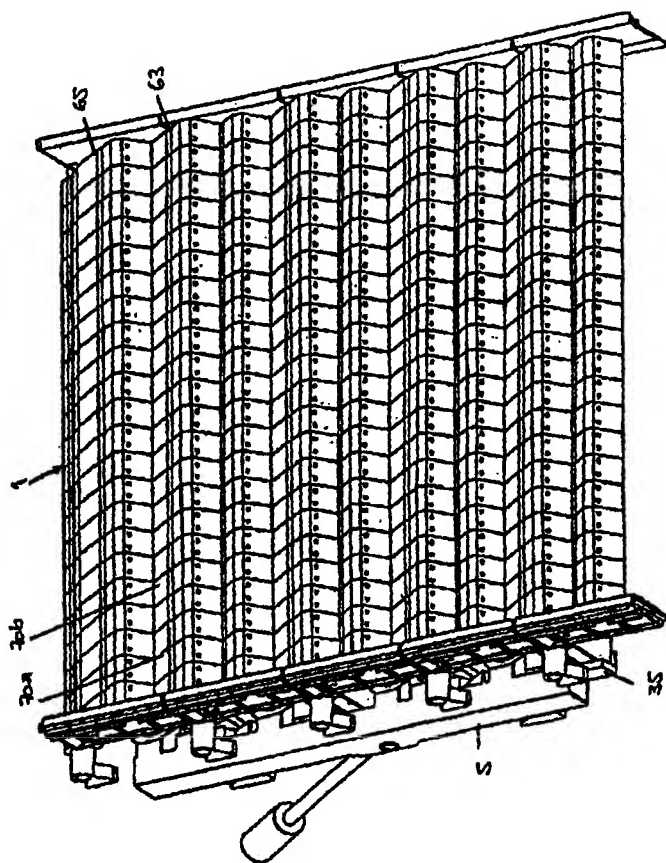


Figure 13

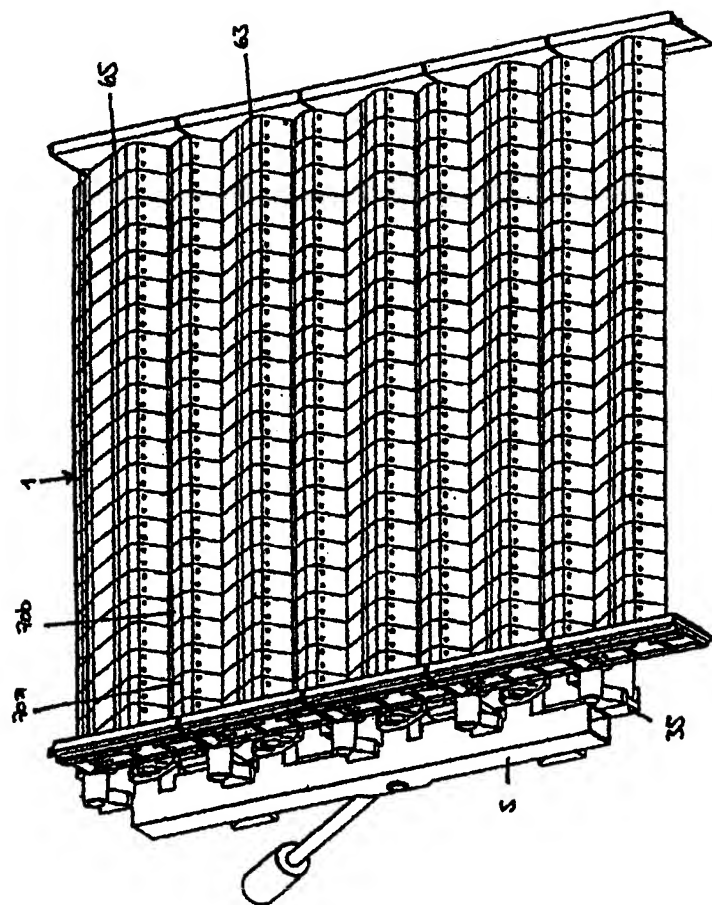


Figure 14